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TITLE: NETWORK SECURITY SYSTEM AND METHOD THEREFOR

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APPL-DATE: September 3, 1996

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## ABSTRACT:

PROBLEM TO BE SOLVED: To transfer transmission information while securely protecting security by individually obtaining message authentication code information on a transmission side and a reception side, collating them and authenticating that the transmission information to be protect security is not altered fraudulently.

SOLUTION: On the transmission and reception sides 100 and 200, communication control parts 102 and 202 mutually transfer various information through a network 1 and picture generation and storage devices 101 and 201 output and store medical pictures. Key management parts 103 and 203 manage key information which encryption processing parts 104 and 204 use at the time of extraction, collation and generation for mutual verification. A message authentication code(MAC) generation, processing and, authentication part 105 integrates information generated by the processing parts 104 and 105 to obtain final MAC information. Mutual authentication parts 106 and 206 authenticate that an opposite party is a regular terminal from information obtained from the control parts 102 and 202. Thus, forgery and fraudulent alteration can securely be detected by using a standard transmission system.

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